BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: Construction of Toilets at Govt PU college in Kempegowda ward No-01 of yelahanka Sub division

BUILDING

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2 2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1 5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1(b) / 2 3 5 Pg No 6,Item No 2.4								
	Earth Work Excavation								
	Longer wall	Cum	2	11	1 2	0 75	19 80		
	Short wall	Cum	2	1 6	1 2	0 75	2 88		
	Basic rate							449 00	
	Area weightage 8%							35 92	
	Total						22.68	484.92	10997.99
2	KSRB 4-1 3 : Providing and laying in position plain cement concrete of mix 1:4 8(M7 5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0 85cum and fine aggregtes @ 0 57cum machine mixed, machine mixed. concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4 1, 4 2 Pg No 13 Item No 4.3								
	P C C								
	Longer wall	Cum	2	11	1 2	0.15	3 96		
	Short wall	Cum	2	1 6	1 2	0 15	0 576		
	Basic rate							5102.00	
	Area weightage 8%							408 16	
	Total						4.54	5510.16	24994.09
3	KSRB 4-1 6 : Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0 878cum and fine aggregtes @ 0 53cum. machine mixed. concrete laid in layers not exceeding 15 cms. thick, well compacted. in foundation plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No KBS 4 1 4 2 Pg No 13 Item No. 4 6								
	Above SSM								
	Long wall	Cum	2	11	0 6	0 15	1 98		
	Short wall	Cum	2	2 8	0 6	0 15	0 50		
	Total Inside area	Cum	1	9 8	2 8	0 15	4 12		
	Area weightage 8%							5422 00	
	Total						6.60	433 76	
4	KSRB 5 2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing completeas per specifications.KBS 5 1 13 Pg. No 25 item No 5.6							5855.76	38648.02
	SSM Footing								
	Below G L								
	Long wall	Cum	2	11	0 9	0 6	11 88		
	short wall	Cum	2	2 2	0 9	0.6	2 38		
	Basic rate							4596 00	
	Area weightage 8%							367 68	
	Total						14.26	4963.68	70762.22
5	KSRB 5.4-4 : Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications. KBS 5 1 13 Pg No 25 item No 5 13								
	Above GL								
	Long wall	Cum	2	11	0.6	0.6	7 92		
	Short wall	Cum	2	2 8	0.6	0.6	2 016		
	Basic rate							6005 00	
	Area weightage 6%							360 30	
	Total						9.94	6365.30	63245.62

28

31

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRB 15.1.3 – do – Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.								
	Pointing								
	Long wall	Cum	2	11		0.6	13.2		
	Short wall	Cum	2	4		0.6	4.8		
	Basic rate							142.00	
	Area weightage 6%							8.52	
	Total						18.00	150.52	2709.36
7	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KBS 2.9, Pg No.7, Item No.2.10								
	Filling Available of Excavated Earth								
	Earth Work Excavation	Cum					22.68		
	PCC for Footing	Cum					-4.54		
	SSM Footing	Cum					-14.26		
	Basic rate							201.00	
	Area weightage 8%							16.08	
	Total						3.89	217.08	844.81
8	Conveying the excavated earth, debries etc , with all lead and lifts including loading and unloading charges etc , complete as per the direction of the Engineer-in-charge. Pg No 136,Item No17.4								
	Excavated Earth	Cum					22.68		
	Filling Available of Excavated Earth						-3.89		
	Loading and unloading item no.17.1 KSRRB M 100-1	Cum						57.00	
	Basic rate for haulage of materials as per item No. 17.4 KSRRB : M 100 - 4.1	t km	For surface roads exluding Basic rate loading & unloading					2.00	
	Average Weight of earth	For2Kms =2x1.28x2						5.12	
	Basic rate							62.12	
	Area weightage 8%							4.97	
	Total						18.79	67.09	1260.75
9	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc , and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons.Specification No. KBS 4.6.2, Pg No 17, Item No 4.34								
	Lintels								
	through lintels (main wall)								
	long wall	Sqm	4	11		0.15	6.6		
	Short wall	Sqm	4	3.6		0.15	2.16		
	Through lintels (partition wall)	Sqm	4	9.1		0.15	5.46		
	Basic rate							292.00	
	Area weightage 8%							23.36	
	Total						14.22	315.36	4484.4192
10	KSRB 4-6.9 : Providing and removing centering, shuttering, strutting, propping etc , for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications. Specifications No. KBS 4.6.2, Pg No 17,Item No 4.36								
	Edges of slab								
	Roof Slab	sqm	1	30		0.15	4.5		
	Basic rate							755.00	
	Area weightage 8%							60.40	
	Total						4.50	815.4	3669.3
11	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.Specification No. KBS 4.6.2 page no.16 item no 4.29.2								

Rate	Amount
n deep, after raking joints to	
142.00	
8.52	
150.52	2709.36
layers not exceeding 20	
ift upto 1.5 m. including	
201.00	
16.08	
217.08	844.01
arges etc., complete as per	
57.00	
2.00	
5.12	
62.12	
4.97	
67.09	1260.75
form work for sides and	
th including cost of all	
292.00	
23.36	
315.36	4484.4192
abs and breaks in floors	
No 17,Item No 4.36	
755.00	
60.40	
815.4	3669.3
form work for suspended	
mplete as per specificaitons	
item no 4.29.2	

No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Roof Slab	sqm	1	10.6	3.6		38.16		
	Basic rate							400.00	
	Area weightage 8%							32.00	
	Total						**38.16**	**432**	**16485.12**
12	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed cement for concrete with M-25. Pg No.19 Item No.4.49.2								
	Roof Slab	Cum	1	11	4	0.15	6.6		
	Basic rate							5497.00	
	Area weightage 8%							439.76	
	Total						**6.60**	**5936.76**	**39182.62**
13	KSRB 4.2.8 : Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts,butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications. No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.12								
	Lintels								
	through lintels (main wall)								
	long wall	Cum	2	11	0.2	0.15	0.66		
	Short wall	Cum	2	3.6	0.2	0.15	0.216		
	Through lintels (partition wall)	Cum	2	9.1	0.1	0.15	0.273		
	Basic rate							6045.00	
	Area weightage 8%							483.60	
	Total						**1.15**	**6528.60**	**7501.36**
14	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2								
	Lintels	Cum	Concrete Quantity				1.15		
		kg	Steel assumed 100 Kg/Cum of				114.90		
		tonne					0.11		
	Roof Slab	Cum	Concrete Quantity				6.60		
		kg	Steel assumed 100 Kg/Cum of				660.00		
		tonne					0.66		
	Basic rate							70966.00	
	Area weightage 8%							5677.28	
	Total						**0.77**	**76643.3**	**59390.88**
15	KSRB 5-14.1: Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4 as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. KBS No.5.4, Pg No. 27 Item No. 5.27.1								
	Long wall	Sqm	2	11		2.85	62.7		
	Short wall	Sqm	2	3.6		2.85	20.52		
	deduction								
	V	Sqm	-14	0.75		0.6	-6.3		
	D	Sqm	-1	0.9		2.1	-1.89		
	Basic rate							912.00	
	Area weightage 8%							72.96	
	Total						**75.03**	**984.96**	**73901.55**

16	KSRB 5-15 : Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., complete as per specifications. KBS No.5.4, Pg No 27, Item No 5.28								
	Long wall	Sqm	2	9.1		2.1	38.22		
	Short wall	Sqm	14	1.2		2.1	35.28		
	Deductions								
	D3	Sqm	-14	0.75		2.1	-22.05		
	Basic rate							811.00	
	Area weightage 8%							64.88	
	Total						**51.45**	**875.88**	45064.83
17	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners, wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 116.Item No 15.16								
	External Plastering								
	Long wall	Sqm	2	11		3	66		
	Short wall	Sqm	2	4		3	24		
	deduction								
	V	Sqm	-14	0.75		0.6	-6.3		
	D1	Sqm	-1	0.9		2.1	-1.89		
	Basic rate							261.00	
	Area weightage 8%							20.88	
	Total						**81.81**	**281.88**	23060.60
18	KSRB 15.3.2 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No 115 Item No.15.10								
	Internal Plastering								
	Entrence	sqm	1	10.2		0.75	7.65		
	Basic rate							204.00	
	Area weightage 8%							16.32	
	Total						**7.65**	**220.32**	1685.45
19	KSRB15-5.1 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications., Pg.No-117, Item No-15.30								
	Rough plaster								
	W.C	Sqm	14	4.8		2.1	141.12		
	Passage	Sqm	2	9.1		2.1	38.22		
	Entrence	Sqm	1	10.2		2.1	21.42		
	Deductions								
	D3	Sqm	-32	0.75		2.1	-50.4		
	D1	Sqm	-1	0.9		2.1	-1.89		
	Basic rate							205.00	
	Area weightage 8%							16.40	
	Total						**148.47**	**221.40**	32871.26
20	providing applying two coats of wall putty to **inside plastered walls and ceiling** using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. ,complete as per specification. Pg No.128 Item No.15.106								
	for Internal plastered portions	Sqm	1	same as Internal plastering			7.65		
	Basic rate							78.00	
	Area weightage 8%							6.24	
	Total						**7.65**	**84.24**	644.44
21	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer. PgNo. 119, I.No. 15.51.2								

Rate	Amount
0X100X200 having a block	
nforming to I.S : 2185 (Part	
arges, scaffolding, curing.	
811.00	
64.88	
875.88	45064.03
masonry including rounding	
of materials, labour, curing	
261.00	
20.88	
281.88	23060.60
ck masonry including	
luding cost of materials,	
204.00	
16.32	
220.32	1685.45
4 to brick masonry for base of	
materials, labour, curing	
205.00	
16.40	32871.26
221.40	
t putty . Scrapping and	
grade sand papers, including	
em No.15.106	
78.00	
6.24	644.44
84.24	
ed brand on wall surface to	
r foreign matter including	
cations. - with primer PgNo	

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Internal painting	Sqm	Same as Internal plastering				7.65		
	Basic rate							90.00	
	Area weightage 8%							7.2	
	Total						7.65	97.20	743.58
22	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications (page no127, item no.15.103)								
	External painting								
	Ground Floor	Sqm	Same as External plastering				81.81		
	Basic rate							340.00	
	Area weightage 8%							27.2	
	Total						81.81	367.20	30040.63
23	KSRB 14.9-1: Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1 2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4 1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, complete as per specifications Specification No. KBS 14.4, Pg No 104,Item No 14 13								
	Hardner Concrete								
	W.C	Sqm	14	1.2	1.2		20.16		
	Passage	Sqm	1	1	9.1		9.1		
	Entrence	Sqm	1	1.5	3.6		5.4		
	Basic rate							631.00	
	Area weightage 8%							50.48	
						Total	34.66	681.48	23620.10
24	KSRB 14.14-5: Providing Ceramic tiles of size 30x30cms 6mm thick of approved make ,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1 3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications.Pg No 108.Item No14.36 .2								
	W.C	Sqm	14	1.2	1.2		20.16		
	Passage	Sqm	1	9.1	1		9.1		
	Entrence	Sqm	1	1.5	3.6		5.4		
	Basic Rate							1210.00	
	Area weightage 8%							96.8	
	Total						34.66	1306.80	45293.69
25	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14 16, 14 17 Pg No 108,Item No14.41.2								
	Wall Cladding								
	W.C	Sqm	14	4.8		2.1	141.12		
	Passage	Sqm	2	9.1		2.1	38.22		
	Entrence	Sqm	1	10.2		2.1	21.42		
	Deductions								
	D3	Sqm	-32	0.75		2.1	-50.4		
	D1	Sqm	-1	0.9		2.1	-1.89		
	Basic Rate							1632.00	
	Area weightage 8%							130.56	
	Total						148.47	1762.56	261687.28
26	KSRB 9-27.1 : Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specifications. Pg No 60,Item No9.80								
	D1	Nos	1				1		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic rate							1366.00	
	Area weightage 8%							109.28	
	Total						1.00	1475.28	1475.28
27	KSRB 9.4-2: Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 Pg No 53,Item No9.11								
	D1	cum	1	6	0.075	0.1	0.045		
	Basic rate							87604.00	
	Area weightage 8%							7008.32	
	Total						0.05	94612.3	4257.55
28	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34, Pg No. 53, Item No. 9.15								
	D1	sqm	1	0.9		2.1	1.89		
	Basic rate							4722.00	
	Area weightage 8%							377.76	
	Total						1.89	5099.76	9638.55
29	Providing and fixing 65mmx90mm GRP Doorframe fabricated using E-Glass Chopped Strand Mat (CSM). U.V-stabilized Isopthalic Gelcoat and Isopthalic resin. The thickness of the GRP skin shall not be less than 2.0 mm. The doorframe consists of four segmens, which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screws. The GRP frame shall be provided with wooden reinforcement of 6 locations fro high screw holding capacity for fixing metallic hold fast and shall be consolidated by filling with medium density foam/Plaster with fibre reinforcement. Six Numbers of 260mmx25mmx5mm size S shaped M.S. flat hold fast shall be provided with the frame. Page No 63, Item No. 9.95								
	D3	m	14	5.70			79.80		
	Basic rate							450.00	
	Area weightage 8%							36.00	
	Total						79.80	486.0	38782.80
30	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour using high quality pigments. Excluding cost of fixtures and inclusive of supply of shutters to respective work spot. P.No.62, I No.9.94								
	D3	Sqm	14	0.75		2.1	22.05		
	Basic rate							3800.00	
	Area weightage 8%							304.00	
	Total						22.05	4104.0	90493.20
31	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications. Pg no 121 Item no 15.60.1								
	D1	sqm	1	6		0.1	0.6		
		sqm	2	6		0.075	0.9		
	Basic rate							97.00	
	Area weightage 8%							7.76	
	Total						1.50	104.76	157.14

	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
32	KSRB 7.11 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm. thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick. weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved quality.Pg No.35 Item No.7.11.2								
	Ventilator	Sqm	14	0.75		0.6	6.3		
	Basic Rate							4435.00	
	Area weightage 8%							354.8	
	Total						6.30	4789.80	30175.74
33	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.Specification No. KBS 7.12 Pg No.34 Item No.7.9								
	Ground floor								
	Ventilator	Kg	1	6.30		9.45	59.535		
						21kg per sqm 0.75*0.6*21=9.45			
	Basic Rate							95.00	
	Area weightage 8%							7.6	
	Total						59.535	102.60	6108.29
34	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Pg no:123.Item no:15.74								
	For ventilators	sqm	1	ventilator qty			6.30		
	Basic rate							95.00	
	Area weightage 8%							7.60	
	Total						6.30	102.60	646.38
35	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305								
	Filling	cum	1	9.80	2.8	0.6	16.46		
	Basic rate							325.00	
	Area weightage 8%							26.00	
	Total						16.46	351.00	5778.86

PLUMBING WORKS

Sl No	Description	Units	Rate(RS.)	Area Weightage 8%	Total Rate (RS.)	Quantity	Amount (RS.)
36	KSRB 11-5 : Providing and fixing white vitreous china clay, **water closet europeon type** (pedestal type, p-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level,P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets , 40mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design,painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications. Specification no.KBS 11 page no 79 item No.12.5	Each	4,956.00	396.48	5,352.48	14	74934.72
37	KSRB 11 11 1 : Providing and fixing white vitreous china clay,flat back **wash basin** size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets ,32mm C.P brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications. Specification No. KBS 11. page no 83 item No.12.24	Unit	3,149.00	251.92	3,400.92	3	10202.76
38	KSRB 11 15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. Page no 84 item No.12.41	Unit	1,136.00	90.88	1,226.88	3	3680.64
39	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.	Each	150.00	12.00	162.00	18	2916
40	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials,labour charges, HOM of acquirements and testing complete as per specifications.For Rain water pipe.						
a	- do - 110 mm dia	m	434	34.72	468.72	15	7030.8
b	do- 160mm dia	m	853	68.24	921.24	29	26715.96

41	Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions. total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 600x600mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 600x600mm. (P.No. 75/ I.No.11.50.2)	Nos.	8490	679.2	9169.2	7	64184.4
WATER SUPPLY WORK							
42	KSRB-13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 3000 Litre capacity) as per IS 12701 1996. Specification No. KBS 13.22 page no 96 item no 13.78	Each	20484	1,638.72	22,122.72	1	22122.72
43	KSRB-13-6.1-2 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.Specification no. KBS 13.2.2/ 13.3 page no 93 item no 13.24	Each	173	13.84	186.84	17	3176.28
44	KSRB-13-6.2-2 : Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.Specification no. KBS 13.2.2/ 13.3 page no 93 item no 13.27	Each	141	11.28	152.28	2	304.56

45	KSRB-13-6.3-2 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.Specification no. KBS 13.2.6/ 13.3 page no 93 item no 13.33	Each	336	26.88	362.88	1	362.88
46	Providing and fixing Chorinated Poly Veny1 Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.,) page no 99 item no13.86.2 and 13.86.3						
a	20mm nominal OD pipes	m	235	18.80	253.80	23	5837.4
b	25mm nominal OD pipes	m	293	23.44	316.44	6	1898.64

64184.4

22122.72

3176.28

304.56

ELECTRICAL WORK

Sl.no	SR book page no.	SR book item no.	Description of Works	Unit	Qty	SR Rate Rs.Ps	Amount, Rs.Ps
			PART A : INTERNAL WIRING SYSTEM				
47			Point wiring using copper wire without switch (Class A material) Supplying and wiring adopting loop system in existing PVC conduit/casing capping using 2X1.5Sqmm(phase &Netural) &1X1.0 Sqmm (Earth Wire) FRLSmultistrand PVC insulated .2x1.5sqmm copper confirming to the GTP With a 6Amps flusg type SP control switch shall be fixed on the existing plastic sheet / gand box the other end of the wire shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet				
a	Pg 5	Item 2.1.1a	Short point upto 3m	Point	20	200.00	4000
48	Pg 2	Item 1.2	Concealed Conduit System - Supplying, heavy gague PVC conduit pipe 20/25/32 mm dia 2mm thick confirming to IS 2509 with suitable size bends metal/pvc junction boxes, adhesive paste etc. and **running before concreting and slab.** The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fisg wire wherever necessary				
a	Pg 2	Item 1.2.2	25mm dia, 2mm thick	Rm	25	53.00	1325
b	Pg 2	Item 1.2.3	32mm dia, 2mm thick	Rm	13	83.00	1079
49	pg 2	item 1.3	Groove cutting Supplying heavy gauge conduit PVC 25.2mm of s thick heavy with suitable size bend metal junction boxes, adhesive pastes etc by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary				
a	Pg 2	Item 1.3.1	19/20mm dia, 2mm thick	Mtr	40	51.00	2040
b	Pg 2	Item 1.3.2	25mm dia, 2mm thick	Mtr	10	54.00	540
50	pg 9	item 3.4	Supplying and flush modular powder coated galvanized metal box suitable for mounting modular switch plates the box should be firmil flush mounted after due groove cutting in brick stone C.C wall				
a	Pg 9	item 3.4.1	1 - 3 Way	Each	1	95.00	95
51	pg 9	Item 3.1	Supplying 6A flush type socket and 6 amp flush type SP switch either surface/flush mountinh in existing gang box or in 4mm thk plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wire as required as per IS 1293 and IS 3654				
a	Pg 9	Item 3.1.2	6AMP 3/5 and Switch	Each	15	132.00	1980
52	pg 15	item 3.3	Supply and fixing of bakelite D P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/switches as per IS 1293 and IS 3854				
a		3.3.4	16Amps Combined switch and socket with indication	No	1	194.00	194
53			Wiring for lighting power circuit using Grade using one of FRLS PVC insulated 1100 volts grade, multistrand copper with low conductor resistance single core wire in open or concealed system of wiring. With specified IS-694 confirming to Latest amendements				
a	Pg 6	Item 2.5.3	2.5sqmm	Mtr	35	32.00	1120
b	pg 6	item 2.5.4	4sqmm	Mtr	8	45.00	360
54	Pg 27	item 5.18	Supplying and fixing of Group A, regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc with provision for fixing suitable type capacity MCB'S single phase/ 3 phase / single door with powder coated painting made out of SWG MS enclosute				
a	pg 28	item 5.18.4	12 way SP & N	Nos	1	1210	1210
55	pg 64	item 12.3.2	Supplying of feet - PVC Batten with integrated LED tube W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80, Power Input 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition. LED light fighting 1 x4 - 20/22 w	Each	22	375.00	8250

Sl.no	SR book page no.	SR book item no.	Description of Works	Unit	Qty	SR Rate Rs.Ps	Amount, Rs.Ps
56	pg 78	item 9.1	Supply Exhaust fan of 1440 RPM of (12") size with dracket blades complete for light duty suitable to -ocrate on 230V 50Hz. supply complete	Each	5	1200.00	6000
57		6.31	Supplying and fixing Trivector meter suitable for operation LT operation and CT operated meter in polycarbonate body in class 0 5accuracy as per IS 14697 and completely wired	Each	1	3778.00	3778
						SUB TOTAL	31971
						TOTAL	1325640.91
						Add 12% GST	159076.91
						Bescom Charges	15000
						Miscellaneous charges	282
						Sub Total	1500000

CERTIFICATE

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B B M P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C S R of 2018-2019, PWD Electrical 2019-20,PRED 2012-13, SE-RDED approved Rate and Issued Rates

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Administrative Approval

Accorded For Rs 15.00 lakhs only
Head of A/C. P.3294
CER NO :..252..... Dt:27.03.2020

TA

CE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 15.00 lakhs
Rupees Fifteen thousand rupees only
Under 14th Finance
P-3294
Registered as CE ( ) No. 99
Subject to conditions contained in enclosed memo EE ( ) No. /99
Dt. Estimate A/ Sanctioned
EE/YNK/BBMP/46/2020-21 No.
Dated 12/4/2020 Rs. 15.00 lakhs

Executive Engineer

Administrative Sanction for Rs. 15.00 lakhs

is accorded under head

Registered as CE No. Subject to conditions contained in enclosed memo No. / Dt.

Executive Engineer